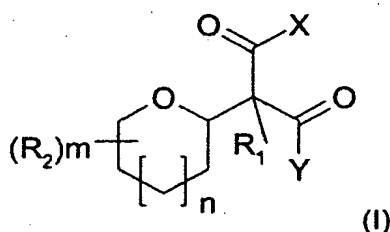


## CLAIMS

1. A composition suitable for topical application to the skin or the scalp, comprising, in a physiologically acceptable medium, at least one compound of formula (I):



10 in which:

$R_1$  represents

- a hydrogen atom, or
- a saturated or unsaturated, linear, cyclic or branched  $C_1$ - $C_{12}$  alkyl group, optionally substituted with one or more of -OR, -SR, -COOR, -NRR', halogen, sulphate, phosphate, glycoside, aryl and heterocycle, in which R and R' represent, independently of each other, a hydrogen atom or a saturated or unsaturated, linear, cyclic or branched  $C_1$ - $C_{12}$  alkyl group, or
- 20 - a halogen atom, or
- an aryl group optionally substituted with one or more of -OR, -SR, -COOR, -NRR', halogen, sulphate and

phosphate, in which R and R' have the meaning given above;

R<sub>2</sub> represents:

- 5 - R<sub>21</sub> in which R<sub>21</sub> has the definition given above for R<sub>1</sub>,  
or
- OR<sub>22</sub>, in which R<sub>22</sub> has the definition given above for R<sub>1</sub>, with the exception of halogen, or
- OR<sub>23</sub>, in which R<sub>23</sub> is a sulphate, phosphate, glycoside  
10 or alkylcarbonyl group, or a heterocycle, or
- NR<sub>24</sub>R<sub>25</sub>, in which R<sub>24</sub> and R<sub>25</sub> independently represent a group having one of the definitions given above for R<sub>1</sub>, with the exception of halogen, or
- NR<sub>26</sub>R<sub>27</sub>, in which R<sub>26</sub> and R<sub>27</sub> independently represent a  
15 glycoside or alkylcarbonyl radical or a heterocycle, or
- a sulphate or phosphate group;

X and Y represent, independently of each other, a radical -OR<sub>3</sub> or -NR<sub>3</sub>R<sub>4</sub>, in which R<sub>3</sub> and R<sub>4</sub> are  
20 independently:

- a hydrogen atom, or
- a saturated or unsaturated, linear, cyclic or  
branched C<sub>1</sub>-C<sub>12</sub> alkyl group, optionally substituted with  
one or more of -OR, -SR, -COOR, -NRR', halogen,  
25 sulphate, phosphate, glycoside, aryl and heterocycle,  
in which R and R' have the meaning given above, or

- an aryl group optionally substituted with one or more of -OR, -SR, -COOR, -NRR', halogen, sulphate and phosphate, in which R and R' have the meaning given above,

5 - or R<sub>3</sub> and R<sub>4</sub> together form a ring containing from 5 to 7 atoms with the nitrogen atom to which they are attached,

or X and Y form a ring of 6 or 7 carbon atoms with the three carbon atoms separating them;

10

n is an integer equal to 0 or 1; and

m is an integer equal to 0, 1, 2, 3 or 4.

15 2. The composition according to Claim 1, wherein R<sub>2</sub> represents:

- a saturated or unsaturated, linear, cyclic or branched C<sub>1</sub>-C<sub>12</sub> alkyl group, optionally substituted with one or more of -OR, -SR, -COOR, -NRR', halogen,

20 sulphate, phosphate, glycoside, aryl and heterocycle, in which R and R' represent, independently of each other, a hydrogen atom or a saturated or unsaturated, linear, cyclic or branched C<sub>1</sub>-C<sub>12</sub> alkyl group, or

- OR<sub>22</sub>, in which R<sub>22</sub> is a saturated or unsaturated,  
25 linear, cyclic or branched C<sub>1</sub>-C<sub>12</sub> alkyl group, optionally substituted with one or more of -OR, -SR, -

COOR, -NRR', halogen, sulphate, phosphate, glycoside, aryl and heterocycle, in which R and R' represent, independently of each other, a hydrogen atom or a saturated or unsaturated, linear, cyclic or branched C<sub>1</sub>-

5 C<sub>12</sub> alkyl group, or

- OR<sub>23</sub>, in which R<sub>23</sub> is a sulphate, phosphate or glycoside group, or a heterocycle, or

- NR<sub>24</sub>R<sub>25</sub>, in which R<sub>24</sub> and R<sub>25</sub> independently represent a saturated or unsaturated, linear, cyclic or branched

10 C<sub>1</sub>-C<sub>12</sub> alkyl group, optionally substituted with one or more of -OR, -SR, -COOR, -NRR', halogen, sulphate, phosphate, glycoside, aryl and heterocycle, in which R and R' represent, independently of each other, a hydrogen atom or a saturated or unsaturated, linear,

15 cyclic or branched C<sub>1</sub>-C<sub>12</sub> alkyl group, or

- NR<sub>26</sub>R<sub>27</sub>, in which R<sub>26</sub> and R<sub>27</sub> independently represent a glycoside or alkylcarbonyl radical or a heterocycle, or  
- a sulphate or phosphate group.

20 3. The composition according to Claim 1, wherein X and Y represent, independently of each other, a radical -OH or -NR<sub>3</sub>R<sub>4</sub>, in which R<sub>3</sub> and R<sub>4</sub> are independently:

- a hydrogen atom, or

25 - a saturated or unsaturated, linear, cyclic or branched C<sub>1</sub>-C<sub>12</sub> alkyl group, optionally substituted with

one or more of -OR, -SR, -COOR, -NRR', halogen, sulphate, phosphate, glycoside, aryl and heterocycle, or

- an aryl group optionally substituted with one or more  
5 of -OR, -SR, -COOR, -NRR', halogen, sulphate and phosphate, in which R and R' represent, independently of each other, a hydrogen atom or a saturated or unsaturated, linear, cyclic or branched C<sub>1</sub>-C<sub>12</sub> alkyl group,

10 - or R<sub>3</sub> and R<sub>4</sub> together form a ring containing from 5 to 7 atoms with the nitrogen atom to which they are attached,

or X and Y form a ring of 6 or 7 carbon atoms with the three carbon atoms separating them.

15

4. The composition according to Claim 1, wherein at least one of the following conditions is satisfied:

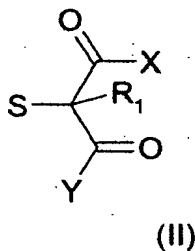
- R<sub>1</sub> is a fluorine or hydrogen atom or an unsubstituted alkyl or benzyl radical,

20 - R<sub>2</sub> is a hydroxyl, hydroxyalkyl or alkyl group or a sugar residue,

- X and Y are groups -NR<sub>3</sub>R<sub>4</sub> in which R<sub>3</sub> and R<sub>4</sub> are chosen independently from a hydrogen atom; and a methyl, ethyl, n-propyl or isopropyl radical, and

25 - n is equal to 1.

5. The composition according to Claim 4, wherein the compound of formula (I) is a C-glycoside derivative corresponding to formula (II) below:



5

in which:

- S represents a monosaccharide or a polysaccharide comprising up to 20 sugar units, in pyranose and/or furanose form and of L and/or D series, the monosaccharide or polysaccharide comprising at least one free hydroxyl function,
- 15 - the S-C bond represents a bond of C-anomeric nature,
- R<sub>1</sub> represents
  - a hydrogen atom, or
  - a saturated or unsaturated, linear, cyclic or
  - 20 branched C<sub>1</sub>-C<sub>12</sub> alkyl group, optionally substituted with one or more of -OR, -SR, -COOR, -NRR', halogen, sulphate, phosphate, glycoside, aryl and heterocycle, in which R and R' represent, independently of each

other, a hydrogen atom or a saturated or unsaturated,  
linear, cyclic or branched C<sub>1</sub>-C<sub>12</sub> alkyl group, or

- a halogen atom, or

- an aryl group optionally substituted with one or  
5 more of -OR, -SR, -COOR, -NRR', halogen, sulphate and  
phosphate, in which R and R' have the meaning given  
above;

- X and Y represent, independently of each other, a  
10 radical -OR<sub>3</sub> or -NR<sub>3</sub>R<sub>4</sub>, in which R<sub>3</sub> and R<sub>4</sub> are  
independently:

- a hydrogen atom, or

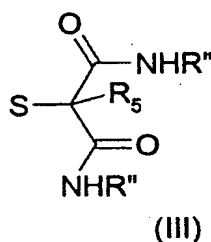
- a saturated or unsaturated, linear, cyclic or  
branched C<sub>1</sub>-C<sub>12</sub> alkyl group, optionally substituted  
15 with one or more of -OR, -SR, -COOR, -NRR',  
halogen, sulphate, phosphate, glycoside, aryl and  
heterocycle, in which R and R' have the meaning  
given above, or

- an aryl group optionally substituted with one or  
20 more of -OR, -SR, -COOR, -NRR', halogen, sulphate  
and phosphate, in which R and R' have the meaning  
given above,

- or R<sub>3</sub> and R<sub>4</sub> together form a ring containing from  
5 to 7 atoms with the nitrogen atom to which they  
25 are attached,

or X and Y form a ring of 6 or 7 carbon atoms with the three carbon atoms separating them.

6. The composition according to Claim 1, wherein  
5 the compound of formula (I) is a C-glycoside derivative corresponding to formula (III):



10 in which:

- S represents a monosaccharide or a polysaccharide comprising up to 20 sugar units, in pyranose and/or furanose form and of L and/or D series, the  
15 monosaccharide or polysaccharide comprising at least one free hydroxyl function,
- the S-C bond represents a bond of C-anomeric nature,
- R<sub>5</sub> denotes:
  - a saturated or unsaturated, linear, cyclic or  
20 branched, unsubstituted C<sub>1</sub>-C<sub>12</sub> alkyl group, or
  - a benzyl radical, or
  - a halogen atom;



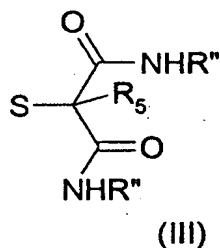
- R" denotes a hydrogen atom or a saturated or unsaturated, linear, cyclic or branched, unsubstituted C<sub>1</sub>-C<sub>12</sub> alkyl group.

5 7. The composition according to Claim 5, wherein S is a monosaccharide selected from the group consisting of D-glucose, D-galactose, D-mannose, D-xylose, D-lyxose, L-fucose, L-arabinose, L-rhamnose, D-glucuronic acid, D-galacturonic acid, D-iduronic  
10 acid, N-acetyl-D-glucosamine and N-acetyl-D-galactosamine.

8. The composition according to Claim 5, wherein S is a polysaccharide comprising up to 6 sugar units  
15 and is selected from the group consisting of D-maltose, D-lactose, D-cellobiose, D-maltotriose, a disaccharide combining D-iduronic acid or D-glucuronic acid with one of D-galactosamine, D-glucosamine, N-acetyl-D-galactosamine, and N-acetyl-D-glucosamine, an  
20 oligosaccharide containing at least one of xylobiose, methyl- $\beta$ -xylobioside, xylotriose, xylotetraose and xylopentaose.

9. The composition according to Claim 6, wherein  
25 R<sub>5</sub> is a benzyl or methyl group and R" is a methyl group.

10. A C-Glycoside derivative corresponding to formula (III):



5

in which:

- S represents a monosaccharide or a polysaccharide comprising up to 20 sugar units, in pyranose and/or furanose form and of L and/or D series, the
- 10 monosaccharide or polysaccharide containing at least one free hydroxyl function,
- the S-C bond represents a bond of C-anomeric nature,
- R<sub>5</sub> denotes:
  - a saturated or unsaturated, linear, cyclic or
  - 15 branched, unsubstituted C<sub>1</sub>-C<sub>12</sub> alkyl group, or
  - a benzyl radical, or
  - a halogen atom;
- R'' denotes a hydrogen atom or a saturated or
- 20 unsaturated, linear, cyclic or branched, unsubstituted C<sub>1</sub>-C<sub>12</sub> alkyl group.

11. The compound according to Claim 10, wherein R<sub>5</sub> is a benzyl or methyl group and R" is a methyl group.

12. A cosmetic process for treating the skin or  
5 the scalp, comprising topically applying to the skin or the scalp the composition of Claim 1.

13. A cosmetic process for preventing or fading  
out the signs of ageing of the skin and/or for  
10 improving the radiance of the complexion and/or for combating dry skin, comprising topically applying to the skin the composition as defined in Claim 1.

14. A cosmetic process for protecting the skin  
15 against the harmful effects of UV rays and pollution, comprising topically applying to the skin the composition as defined in Claim 1.

15. Cosmetic process for improving the barrier  
20 function of the skin and/or for moisturizing the skin, comprising topically applying to the skin the composition as defined in Claim 1.

16. The composition according to Claim 6, wherein  
25 S is a monosaccharide selected from the group consisting of D-glucose, D-galactose, D-mannose,

D-xylose, D-lyxose, L-fucose, L-arabinose, L-rhamnose, D-glucuronic acid, D-galacturonic acid, D-iduronic acid, N-acetyl-D-glucosamine and N-acetyl-D-galactosamine.

5

17. The composition according to Claim 6, wherein S is a polysaccharide comprising up to 6 sugar units and is selected from the group consisting of D-maltose, D-lactose, D-cellobiose, D-maltotriose, a disaccharide  
10 combining D-iduronic acid or D-glucuronic acid with one of D-galactosamine, D-glucosamine, N-acetyl-D-galactosamine, and N-acetyl-D-glucosamine, an oligosaccharide containing at least one of xylobiose, methyl- $\beta$ -xylobioside, xylotriose, xylotetraose and  
15 xylopentaose.